Acknowledgements

We would like to thank you for choosing a TISSOT watch, a Swiss brand among the most highly renowned in the world. Your T-TOUCH watch has the most recent technical innovations. It gives you a constant analogue time display and a variety of digital displays.

In addition, the following functions can be accessed simply by touching the glass: Weather, Altimeter, Chronograph, Compass, Alarm and Thermometer.
WARNING

TISSOT TACTILE WATCHES MUST ONLY BE SERVICED BY TISSOT’S AUTHORIZED CUSTOMER SERVICE CENTERS, WHICH ARE LOCATED IN OVER 160 COUNTRIES.
T-TOUCH EXPERT

FUNCTIONS

- **1st function**: Time
- **2nd function**: Alarm
- **1st function**: Relative pressure, Active altitude difference meter
- **2nd function**: Absolute pressure, Azimuth
- **Battery type**: Button-type lithium-manganese dioxide primary battery cell.
- **Water resistance**: 10 bar (100 m / 330 ft)

**Activate touch-sensitive glass / Activate light**

- CENTRE – Date
- CENTRE – Time 1
- CENTRE – Time 2
- CENTRE – Options
- METEO – Weather, relative pressure
- METEO – Weather, absolute pressure
- ALTIMETER – Altimeter
- ALTIMETER – Altitude difference meter

- CHRONO – Chronograph
- CHRONO – Timer
- COMPASS – Compass
- COMPASS – Azimuth
- COMPASS – Calibration
- ALARM – Alarm 1
- ALARM – Alarm 2
- THERMO – Thermometer
GENERAL USER INFORMATION

**Activating the touch-sensitive glass**

When the glass is activated, the symbol will flash on the digital display.

If the glass is not touched, it will automatically deactivate after 15 seconds.

**Exception:** In compass and altitude difference meter mode, the glass will deactivate after 30 seconds.

**Activating the light**

The display light will stay on for 5 seconds.

**Select a function**

Touch one of the 7 touch-sensitive areas of the glass to activate the corresponding function.

**Setting mode**

Pressing and holding or will move the hands forward or backward. After a full revolution, the minutes hand will stop and the hour hand advances/reverses in steps of one hour. Time T2 is set in steps of 15 minutes.

**Validate setting**

a) The seconds restart at zero
b) The seconds continue

**Display mode**

Activate the glass

<table>
<thead>
<tr>
<th>Date display</th>
<th>Time 1 display: T</th>
<th>Time 2 display: T2</th>
</tr>
</thead>
<tbody>
<tr>
<td>21:12.01</td>
<td>10:10</td>
<td>12:10</td>
</tr>
<tr>
<td>Options Display</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Return to Date display</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SETTING > TIMES T & T2**

Pressing and holding or will move the hands forward or backward. After a full revolution, the minutes hand will stop and the hour hand advances/reverses in steps of one hour. Time T2 is set in steps of 15 minutes.

**Setting mode**

Select a function

Touch one of the 7 touch-sensitive areas of the glass to activate the corresponding function.

**Validate setting**

a) The seconds restart at zero
b) The seconds continue

**SETTING > DATE**

The calendar is perpetual, i.e. the number of days per month is predefined. In continuous setting, the days scroll past slowly at first, and then quicker. After a full month, the calendar scrolls in months, and then likewise in years.

**Validate setting**

<table>
<thead>
<tr>
<th>Date display</th>
<th>Setting mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>21:12.01</td>
<td>21:12.01</td>
</tr>
<tr>
<td>Options Display</td>
<td></td>
</tr>
</tbody>
</table>

**Return to Date display**
T-TOUCH EXPERT

**READING > OPTIONS**

- **Activate glass**
- **Options display (see page 4)**
- **Switch to sub-menus: Units display**
- **Beep display**
- **Automatic switch to standby mode after 5 seconds**

**Climate zone display**

**Back to units display**

**At any time: exit sub-menu – back to date display**

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**SETTING > UNITS**

- **Units display**
- **Setting mode**
- **Select mode 12/24 hours – in 12 hour mode, the letter A (AM) or P (PM) appears between minutes and seconds when setting the time**
- **Select Mode “º C / m” or “º F / ft”**
- **Validate setting. Selecting 12 hour mode displays the date in the format 12.27.2007 (month, day, year), and 24 hour mode in the format 27.12.2007 (day, month, year).**

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**SETTING > BEEP**

- **Beep display**
- **Setting mode**
- **Activated = on, Deactivated = off**
- **Validate setting**

Deactivating the sound silences adjustment beeps but not the alarms.
**SETTING > STANDBY**

Standby mode is a battery economy mode. All the functions are deactivated, with only the time & date counters updated. This mode economises the battery when the watch is not being worn.

Automatic switch to standby mode after 10 seconds
Beep every second

a) The watch is in standby

Back to time & date mode

b) + / - stop the count, the watch does not switch to standby mode

Back to time & date mode

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**SETTING > HEMISPHERE AND CLIMATE ZONE**

To get the best from the altimeter function, it is possible to adjust the hemisphere and climate zone to your geographic location. Select your climate zone according to the simplified Köppen climate classification (see illustration on right).

If the watch is not set ("No Set"), the standard atmosphere model is used: set temperature at sea level = 15°C, mean pressure at sea level: 1013.25 hPa

Select hemisphere:
- North = North,
- South = South
- not set = not set

Set the local climate:
- T = temperate;
- M = Mediterranean;
- A = arid;
- tr = tropical;
- P = polar

Climate zone display

Setting mode

2 sec.

Select hemisphere:

North T

South T

not set

Set the local climate:

T = temperate;
M = Mediterranean;
A = arid;
tr = tropical;
P = polar

Validate setting

Climate zones:
- Polar
- Temperate
- Arid
- Tropical
- Mediterranean
**T-TOUCH EXPERT**

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### SETTING > SYNCHRONISATION

The watch needs to be synchronised if the watch hands do not display the same time as the digital display, or if they are not correctly superimposed when accessing the functions.

The watch is desynchronised when its electric motor’s mechanism is disturbed due to heavy impacts for example.

N.B.: The glass must be active to access the synchronisation mode.

- **Synchronised**
- **Desynchronised**

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### WEATHER

In weather mode, the hands are superimposed to indicate the weather trend.

- **Activate glass**
- **Relative pressure display in hPa**
- **Absolute pressure display in hPa**

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### SETTING > RELATIVE PRESSURE PRESETTING

Setting this pressure changes the altitude displayed. The possible relative pressure is deliberately limited between 950 hPa and 1100 hPa.

- **Setting mode**
- **Validate setting**

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GLOSSARY > WEATHER

Description of function
In weather mode, the hands are superimposed to indicate the weather trend.

Explanations
Weather changes are related to variations in atmospheric pressure. When atmospheric pressure increases the sky clears. The area is then referred to as a "high pressure" area or "anticyclone" (A). When atmospheric pressure decreases the sky clouds over. The area is then referred to as a "low pressure" area or "depression" (D). The T-TOUCH measures these pressure variations and indicates the weather trend with the hands, which can adopt the following 7 positions according to the weather developments:

- 6': Big pressure drop, rapid deterioration
- 4': Moderate pressure drop, probable deterioration
- 2': Small pressure drop, probable slight deterioration
12 o'clock: No notable weather change
+ 2': Slight pressure rise, probable slight improvement
+ 4': Moderate pressure rise, probable improvement
+ 6': Big pressure rise, rapid improvement

The T-TOUCH program takes account of atmospheric pressure variation over the last 6 hours to calculate the trend to indicate. Furthermore, the pressure variation caused by a rapid change in altitude is detected by the watch and compensated for automatically. So it only has a minimal impact on the barometric trend.

The T-TOUCH digital display indicates the absolute and relative atmospheric pressure values in hectoPascals [hPa]. Absolute atmospheric pressure is the actual pressure at the time and place of measurement, and cannot be altered. Relative pressure is a value relative to sea level, based on local absolute atmospheric pressure. Barometers and weather charts show relative pressure values. The relative pressure value depends on the climate zone set, and can be preset on the watch. The relative pressure presetting is in line with the altitude.

Characteristics of function
Measurement range: absolute pressure: 300 hPa to 1100 hPa
relative pressure: 950 hPa to 1100 hPa
Accuracy: absolute pressure: ± 3 hPa
relative pressure: varies with altimeter
Resolution: 1 hPa
Unit conversion: 1 hectoPascal [hPa] = 1 millibar [mb]

ALTIMETER

The altitude is displayed on the digital screen for 4 hours continuously. After 4 hours, the altimeter mode is deactivated, and the date is displayed.

The T-TOUCH digital display indicates the absolute and relative atmospheric pressure values in hectoPascals [hPa]. Absolute atmospheric pressure is the actual pressure at the time and place of measurement, and cannot be altered. Relative pressure is a value relative to sea level, based on local absolute atmospheric pressure. Barometers and weather charts show relative pressure values. The relative pressure value depends on the climate zone set, and can be preset on the watch. The relative pressure presetting is in line with the altitude.

Characteristics of function
Measurement range: absolute pressure: 300 hPa to 1100 hPa
relative pressure: 950 hPa to 1100 hPa
Accuracy: absolute pressure: ± 3 hPa
relative pressure: varies with altimeter
Resolution: 1 hPa
Unit conversion: 1 hectoPascal [hPa] = 1 millibar [mb]
Due to the use of pressure to calculate altitude, the altimeter is sensitive to variations in atmospheric pressure in weather changes. It is not uncommon to observe altitude differences of 100 m in a night. So the value displayed may vary without the altitude having actually changed.

We advise you to stop the altitude difference meter during rest times and then restart it, in order to obtain more accurate results.

**Note 1:** “Presetting” an altimeter means setting the actual altitude of a known point (see presetting procedure on page 8). The actual altitude values are indicated on various media: signposts, contour lines and spot heights on maps. The altitude “presetting” is in line with relative atmospheric pressure.

**Note 2:** In an airliner, since the cabin is pressurised, your altimeter will not indicate an accurate altitude.

**Note 3:** To optimise the accuracy of your altimeter, you are advised to select the climate zone, see page 6.

**Characteristics of function**

<table>
<thead>
<tr>
<th>Measurement range</th>
<th>– 400 m to +9000 m</th>
<th>– 1333 ft to +30,000 ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>Altimeter resolution</td>
<td>1 m</td>
<td>3 ft</td>
</tr>
<tr>
<td>Unit conversion</td>
<td>1 metre [m] = 3.281 feet [ft]</td>
<td>1 foot [ft] = 0.305 metres [m]</td>
</tr>
<tr>
<td>Altimeter difference meter max. measurement time</td>
<td>9 days 23 hours 59 minutes</td>
<td></td>
</tr>
<tr>
<td>Maximum altitude difference</td>
<td>+/- 30,000 m</td>
<td>+/- 99,000 ft</td>
</tr>
<tr>
<td>Altimeter difference meter resolution</td>
<td>1 m</td>
<td>3 ft</td>
</tr>
<tr>
<td>Maximum vertical speed</td>
<td>4998 m/min (appr. 300 km/h)</td>
<td>16,401 ft/min (appr. 187.5 mph)</td>
</tr>
<tr>
<td>Minimum vertical speed</td>
<td>5 m/min (appr. 0.3 km/h)</td>
<td>16.4 ft/min (appr. 0.2 mph)</td>
</tr>
<tr>
<td>Vertical speed resolution</td>
<td>1 m/min</td>
<td>3 ft/min</td>
</tr>
<tr>
<td>Minimum vertical movement</td>
<td>5 m</td>
<td>16 ft</td>
</tr>
<tr>
<td>Minimum time of movement</td>
<td>5 mins</td>
<td></td>
</tr>
</tbody>
</table>

**Weather change = pressure variation = displayed altitude change**
**T-TOUCH EXPERT**

**CHRONO**
Resolution: 1/100 sec / Measurement range: 99 hrs 59’59” and 99/100 sec

- **Activate glass**
- **Chrono display**
- **Start chrono**
- **Stop chrono**

**Split (partial time)**

- **Start chrono**
  - a) Flashing stop with partial time displayed, and chrono running in background
- **b) Restart the chrono counting the elapsed time**

**Reset**

- **Stop chrono**
- **Reset chrono**

**CHRONO > TIMER**
Measurement range: 23 hrs 59’59”

- **Activate glass**
- **Chrono display**
- **Timer display**
- **Start or stop timer**
- **Reload the last value on the timer**

**SETTING > CHRONO > TIMER**

- **Timer display**
- **Setting mode**
  - ☀: forward
  - ☀: backward
- **Validate setting**
**COMPASS**

The minutes hand points to True North, factoring in the magnetic declination setting. In compass mode, the digital screen displays the angle between 12 o'clock and the minutes hand.

**COMPASS > AZIMUTH**

In compass mode, your T-TOUCH enables you to define and follow an azimuth. To do so, you need only set the azimuth value and align the watch using the arrows. The 6-12 o’clock axis will indicate the heading to take.

1. **Azimuth display**
2. **Setting mode**
3. **Azimuth display**
4. **Validate setting**

**COMpass display**

**Setting mode and magnetic declination display**

- : +/- 1 degree East
- : +/- 1 degree West

1. **Azimuth display**
2. **Setting mode**
3. **Azimuth display**
4. **Validate setting**

- : increase azimuth by 1 degree
- : decrease azimuth by 1 degree

**COMPASS > MAGNETIC DECLINATION**

**2 sec.**

**COMpass display**

**Setting mode and magnetic declination display**

- : +/- 1 degree East
- : +/- 1 degree West

1. **Azimuth display**
2. **Setting mode**
3. **Azimuth display**
4. **Validate setting**

- : increase azimuth by 1 degree
- : decrease azimuth by 1 degree
Azimuth explanations

In azimuth mode, your T-TOUCH indicates the azimuth (heading) that you need to turn.

Azimuth explanations

The azimuth is the horizontal angle between the direction of an object and True North. The azimuth is measured from north in degrees from 0° to 359° (e.g.: East = 90°).

In azimuth mode, the T-TOUCH emits a beep and visual signal when the 6-12 o’clock axis of the watch is aligned with the heading set.

12 o’clock represents the heading given by the azimuth relative to True North.

Note 1

For a correct indication of North, it is extremely important to hold the watch as level as possible.

Note 2

The compass function, like any other compass, should not be used near a metal or magnetic mass. In case of doubt, you can recalibrate your compass.

Note 3

The rotating bezel, graduated from 0° to 359°, provides another method for determining the azimuth.

Characteristics of function

Accuracy: ± 8°
Resolution: 2°
**ALARM**

The 2 alarms are associated with time T. An alarm lasts 30 seconds, without repeating. When the programmed time is reached, you can stop the alarm by pressing one of the push-buttons.

**THERMOMETER**

Description of function

In thermometer mode, your T-TOUCH displays the ambient temperature.

Explanations

The temperature displayed corresponds to that of the watch case, so this temperature is influenced by your body temperature. That is why the temperature displayed may differ from the ambient temperature.

To display the actual ambient temperature, the watch needs to be taken off for 15 to 30 minutes, in order to be free from the influence of body temperature.

Characteristics of function

The temperature can be displayed in degrees Celsius [°C] or degrees Fahrenheit [°F]. (See procedure to follow for changing units on page 5).

### Conversion formulae:

<table>
<thead>
<tr>
<th>°C to °F</th>
<th>°F to °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>T°C = (T°F - 32) x 5/9</td>
<td>T°F = T°C x 9/5 + 32</td>
</tr>
</tbody>
</table>

### Measurement range:

-5°C to +55°C / 23°F to 130°F

### Accuracy:

± 1°C / ± 1.8°F

### Resolution:

0.1°C / 0.2°F
**SENSOR FAULT**

When a function is selected and the display is cleared, it is probably due to a failure of the selected function’s sensor.

Error: the display is cleared

Back to date display

If this happens, please contact your retailer.

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**WARNINGS**

Battery type: button-type lithium-manganese dioxide primary battery cell.

To activate the functions on your T-TOUCH a gentle press on the push-buttons or touch on the glass is all that is required. Excessive force may damage the watch.

The brightness of the digital display decreases when the hands are in motion.

In fast continuous setting mode, the display moves at a faster rate (e.g. for date function: months or years instead of days) than in non-continuous or normal speed setting mode (e.g. for date: days instead of months or years). To exit fast continuous setting mode, you need to release the push-pieces for 3 seconds to continue in normal speed setting mode.

The T-TOUCH is water-resistant to 10 bar (100 m / 330 ft) at 25°C / 77°F, but it is not an instrument suitable for sports diving. You must not use push-buttons when the watch is underwater. None of the functions can be activated if the glass is in contact with a liquid.

Additional information in the "International Warranty – Service centers" booklet.